

Nama : Nicky Pascal Tambunan

Kelas : TI.22.A.5

NIM : 312210474

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Langkah-langkah membuat data di MySQL

1. Menampilkan database

```
SHOW DATABASES;
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| sys       |
+-----+
4 rows in set (0.00 sec)
```

2. Membuat database baru

```
CREATE DATABASE latihan2;
```

```
mysql> create database latihan2;
Query OK, 1 row affected (0.11 sec)
```

```
SHOW DATABASES;
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| latihan2      |
| mysql      |
| performance_schema |
| sys       |
+-----+
5 rows in set (0.00 sec)
```

3. Membuat Table

```
USE latihan2;
```

```
mysql> use latihan2;
Database changed
```

```
CREATE TABLE biodata (nama VARCHAR(100),  
alamat TEXT  
);
```

```
mysql> create table biodata (nama varchar(100), alamat text);  
Query OK, 0 rows affected (0.23 sec)
```

```
SHOW TABLES;
```

```
mysql> show tables;  
+-----+  
| Tables_in_latihan2 |  
+-----+  
| biodata             |  
+-----+  
1 row in set (0.00 sec)
```

```
DESC biodata;
```

```
mysql> desc biodata;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| nama  | varchar(100)  | YES  |     | NULL    |       |  
| alamat | text          | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
2 rows in set (0.00 sec)
```

#### 4. Menambah kolom

```
ALTER TABLE biodata ADD COLUMN keterangan VARCHAR(15);
```

```
mysql> alter table biodata add column keterangan varchar(15);  
Query OK, 0 rows affected (0.08 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
DESC biodata;
```

```
mysql> desc biodata;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| nama       | varchar(100)  | YES  |     | NULL    |       |  
| alamat     | text          | YES  |     | NULL    |       |  
| keterangan | varchar(15)   | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

5. Menambah kolom pada posisi awal

```
ALTER TABLE biodata ADD COLUMN id INT(11) FIRST;
```

```
mysql> alter table biodata add column id int(11) first;
Query OK, 0 rows affected, 1 warning (0.38 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
DESC biodata;
```

```
mysql> desc biodata;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int           | YES  |     | NULL    |       |
| nama       | varchar(100)  | YES  |     | NULL    |       |
| alamat     | text          | YES  |     | NULL    |       |
| keterangan | varchar(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

6. Menyisipkan kolom di setelah kolom alamat

```
ALTER TABLE biodata ADD COLUMN phone VARCHAR(15) AFTER alamat;
```

```
mysql> alter table biodata add column phone varchar(15) after alamat;
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
DESC biodata;
```

```
mysql> desc biodata;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int           | YES  |     | NULL    |       |
| nama       | varchar(100)  | YES  |     | NULL    |       |
| alamat     | text          | YES  |     | NULL    |       |
| phone      | varchar(15)   | YES  |     | NULL    |       |
| keterangan | varchar(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

7. mengubah tipe data

```
ALTER TABLE biodata MODIFY COLUMN id CHAR(11);
```

```
mysql> alter table biodata modify column id char(11);
Query OK, 0 rows affected (0.26 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
DESC biodata;
```

```
mysql> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
phone	varchar(15)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

5 rows in set (0.00 sec)

8. Mengubah nama kolom dan tipe data

```
ALTER TABLE biodata CHANGE phone hp VARCHAR(20);
```

```
mysql> alter table biodata change column phone hp varchar(20);
```

Query OK, 0 rows affected (0.07 sec)  
Records: 0 Duplicates: 0 Warnings: 0

```
DESC biodata;
```

```
mysql> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
hp	varchar(20)	YES		NULL	
keterangan	varchar(15)	YES		NULL	

5 rows in set (0.00 sec)

9. Menyisipkan kolom setelah kolom hp

```
ALTER TABLE biodata ADD COLUMN email INT AFTER hp;
```

```
mysql> alter table biodata add column email int after hp;
```

Query OK, 0 rows affected (0.09 sec)  
Records: 0 Duplicates: 0 Warnings: 0

```
DESC biodata;
```

```
mysql> desc biodata
-> ;
```

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
hp	varchar(20)	YES		NULL	
email	int	YES		NULL	
keterangan	varchar(15)	YES		NULL	

```
6 rows in set (0.00 sec)
```

#### 10. Menghapus kolom

```
ALTER TABLE biodata DROP COLUMN keterangan;
```

```
mysql> alter table biodata drop column keterangan;
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
DESC biodata;
```

```
mysql> desc biodata;
```

Field	Type	Null	Key	Default	Extra
id	char(11)	YES		NULL	
nama	varchar(100)	YES		NULL	
alamat	text	YES		NULL	
hp	varchar(20)	YES		NULL	
email	int	YES		NULL	

```
5 rows in set (0.00 sec)
```

#### 11. Mengubah nama tabel

```
ALTER TABLE biodata RENAME data_mahasiswa;
```

```
mysql> alter table biodata rename data_mahasiswa;
Query OK, 0 rows affected (0.12 sec)
```

```
SHOW TABLES;
```

```
mysql> show tables;
+-----+
| Tables_in_latihan2 |
+-----+
| data_mahasiswa     |
+-----+
1 row in set (0.00 sec)
```

## 12. Mengubah nama kolom

```
ALTER TABLE data_mahasiswa CHANGE id nim CHAR(11);
```

```
mysql> alter table data_mahasiswa change column id nim char(11);
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
DESC data_mahasiswa;
```

```
mysql> desc data_mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | char(11)      | YES  |     | NULL    |       |
| nama  | varchar(100)  | YES  |     | NULL    |       |
| alamat | text          | YES  |     | NULL    |       |
| hp    | varchar(20)   | YES  |     | NULL    |       |
| email | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

## 13. Memanbahkan Primary key

```
ALTER TABLE data_mahasiswa ADD PRIMARY KEY(nim);
```

```
mysql> alter table data_mahasiswa add primary key(nim);
Query OK, 0 rows affected (0.24 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
Desc data_mahasiswa;
```

```
mysql> desc data_mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | char(11)      | NO   | PRI | NULL    |       |
| nama  | varchar(100)  | YES  |     | NULL    |       |
| alamat | text          | YES  |     | NULL    |       |
| hp    | varchar(20)   | YES  |     | NULL    |       |
| email | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

14. Menamabahkan unique unique key

```
ALTER TABLE data_mahasiswa ADD UNIQUE KEY(email);
```

```
mysql> alter table data_mahasiswa add unique key(email);  
Query OK, 0 rows affected (0.46 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
DESC data_mahasiswa
```

```
mysql> desc data_mahasiswa;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| nim   | char(11)      | NO   | PRI | NULL    |       |  
| nama  | varchar(100)  | YES  |     | NULL    |       |  
| alamat | text          | YES  |     | NULL    |       |  
| hp    | varchar(20)   | YES  |     | NULL    |       |  
| email | int           | YES  | UNI | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```